

YORK ParaFlow™ Chiller-Heaters

PRE-START CHECK LIST

CHECK
OFF

A. GENERAL

- _____ 1. The accessory parts box shipped with the machine must be opened by the installing contractor, with a representative from YORK INTERNATIONAL to make sure all parts shipped with the machine are on the site.
- _____ 2. Received Equipment Submittal Drawings.
- _____ 3. Received Unit Factory Test Report.
- _____ 4. Machine is properly installed and leveled (See submittal drawings for leveling instructions.)
- _____ 5. Chilled water, hot water, and condenser water piping, pumps etc. are properly installed, tested and operational.
- _____ 6. Chilled water, condenser water flow switches properly installed.
- _____ 7. Flow rates of chilled water, condenser water and hot water are balanced to specification.
- _____ 8. Thermometer and pressure gauges are installed in the supply and return water connections to all tube bundles per proper piping procedures.
- _____ 9. Three phase disconnect switch installed next to the machine control panel. (Not applicable on U.S. built units)
- _____ 10. Proper electric power is supplied to the machines. All connections are made and checked, and all external controls and interlocks are installed and checked.
- _____ 11. Cooling tower is properly sized, filled, tested , operational and capable of providing condenser water temperature as per machine specification. Minimum tower water temperature control provided.
- _____ 12. Purge pump is mounted and connected properly. Rupture disk piping is connected and supported per submittal drwgs.
- _____ 13. Lithium Bromide solution is placed near the unit. (Not applicable on units shipped with the charge inside.)
- _____ 14. Air handling equipment is operational and there is required cooling or heating building load for start-up.

B. DIRECT FIRED MODELS

- _____ 1. Breaching and stack are properly designed and operational including proper draft control, temperature and pressure gauges etc. (See submittal drawings for draft requirements)
- _____ 2. Burner, burner panel, gas train and oil piping are installed properly in accordance with manufacturer's instruction and meet local utility requirements.
- _____ 3. Gas and oil (if applicable) supply and pressures are within machines' specifications. (Pilot gas must be available for oil fired operation)
- _____ 4. A means of measuring the gas flow input to the individual units must be available for high fire burner adjustment. Without a proper metering device, it will not be possible to adjust the burner for the full firing rate.

CHECK
OFF

C. HEAT RECOVERY MODELS

- ____ 1. Heat source is operational and heat supply to the machine is at the same flow rate and temperatures as per machine specifications.
- ____ 2. All duct work to the machine has been completed and tested and all dampers and their operators and controls are installed, tested and operational.
- ____ 3. Thermometer and pressure gauges are installed in the inlet and outlet ducts.
- ____ 4. The minimum exhaust gas temperature demand switch 26SH6 (provided by contractor with a minimum temperature requirement set point at 500°F) must be installed upstream of the inlet damper to the machine.
- ____ 5. The booster burner unit should be tested and operational.

D. STEAM MODELS

- ____ 1. Steam supply and pressure to the machine is available and within machine specifications.
- ____ 2. All steam piping, manual/automatic stop valves, pressure relief valve, control valve, thermometer and pressure gauges, etc. are installed properly, tested and operational.
- ____ 3. Steam piping to the machine must be flushed for approximately 24 hours.
- ____ 4. Steam condensate back pressure drain valve and pressure gauge (range should be 0 - 30 PSI) must be installed.
- ____ 5. Steam condensate pumps must be tested and operational.

E. ADJUSTMENT OF SOLUTION AND REFRIGERANT CHARGE

Full continuous *Design Load* conditions are necessary for the adjustment of the solution and refrigerant charge.

I have read the check list and verify that all of the above requirements are met. It is understood that if **YORK INTERNATIONAL** is requested to conduct a repeat start-up call because of failure to comply with any of the above requirements. **YORK INTERNATIONAL** reserves the right to be compensated for their additional services and expenses.

BY : _____

COMPANY : _____

ADDRESS : _____

TELEPHONE NO. : _____